

【図面】

【図1】

Fig. 1

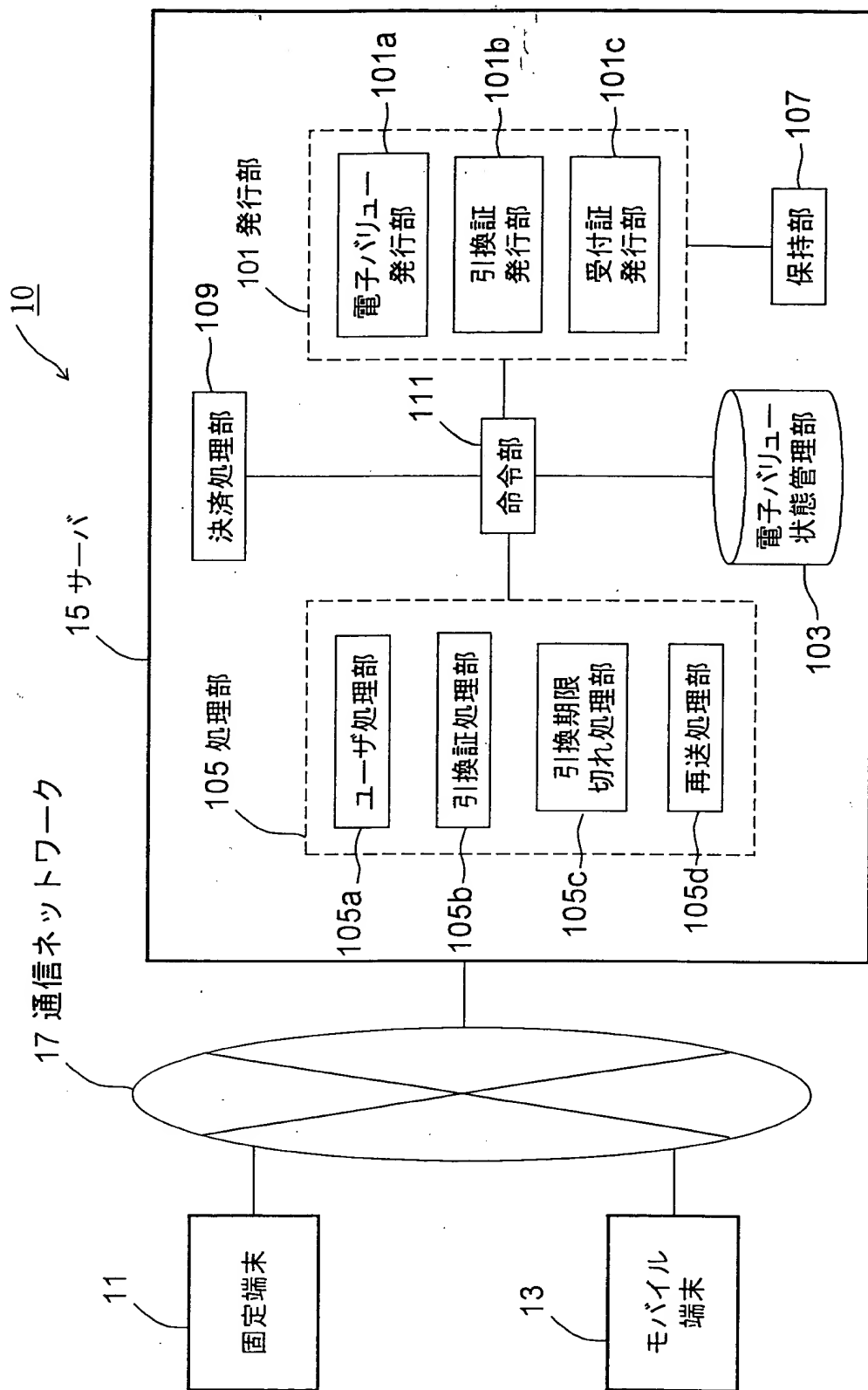
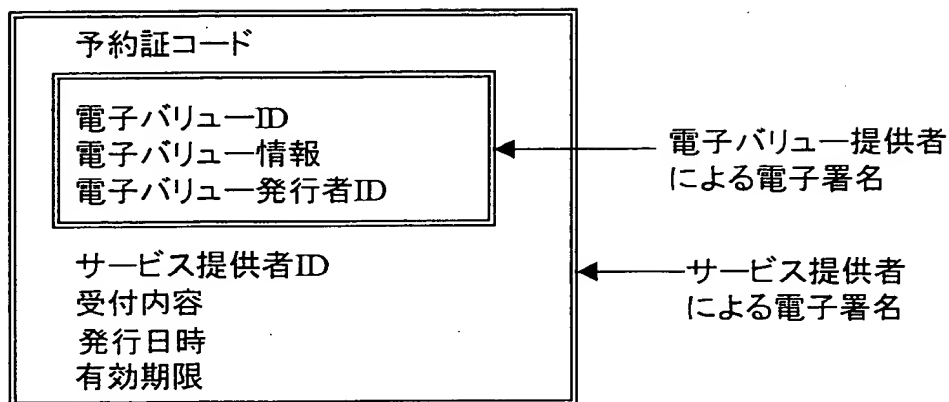
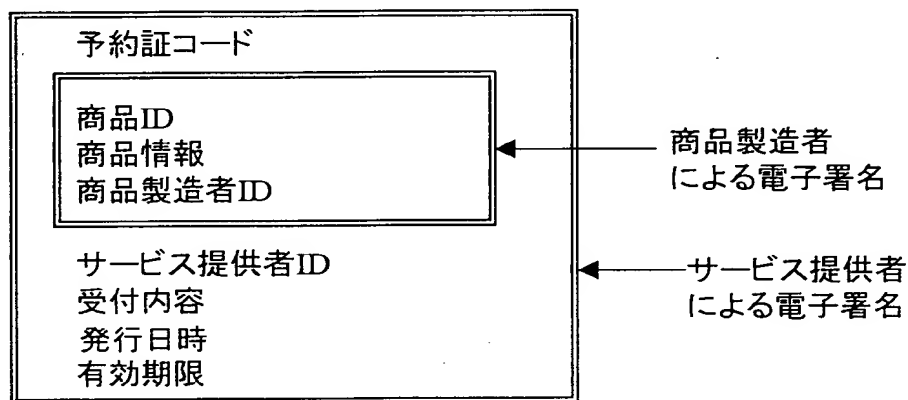


FIG. 2A



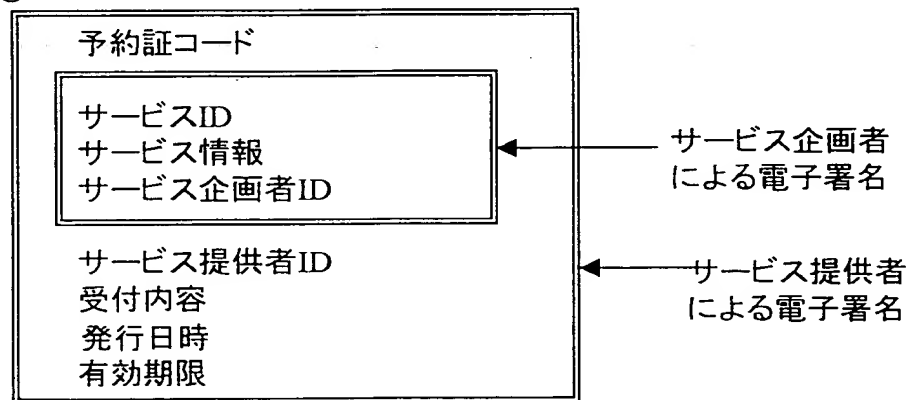
~~(a)~~

FIG. 2B



~~(b)~~

FIG. 2C



~~(c)~~

FIG. 3

【図3】

300

300a	300b	300c	300d	300e	300f
電子バリューID	発行日時	電子バリューの有効期限	引換証の有無	引換証の有効期限	状態
123456788	2000/12/14 13:10:11	2000/12/31 22:00:00	Yes	2000/12/30 00:00:00	払い戻し完了
123456789	2000/12/14 13:12:11	2000/12/31 22:00:00	Yes	2000/12/30 00:00:00	ユーザからの引換要求待ち
123456790	2000/12/14 13:12:19	2000/12/31 22:00:00	Yes	2000/12/30 00:00:00	設定期日のダウンロード待ち
123456798	2000/12/14 13:13:13	2001/04/01 22:00:00	No	2000/12/30 00:00:00	電子バリューダウンロード完了
123456799	2000/12/14 13:17:11	2000/12/31 22:00:00	Yes	2000/12/30 00:00:00	電子バリューダウンロード完了
...

【図4】

FIG. 4

メッセージ
<p>クリスマスコンサート</p> <p>日時: 2000年12月25日</p> <p>上記チケットの引換有効 期限が迫っています。 お早めにお引き換えください。 有効期限後の払い戻し は出来ません。</p>

【図5】 FIG. 5A

FIG. 5B

ダウンロードメッセージ
<p>クリスマスコンサート</p> <p>日時: 2000年12月25日</p> <p>上記チケットを <input checked="" type="checkbox"/> ダウンロード実行 <input type="checkbox"/> その他</p> <p>処理を選択し、実行キー を押してください。</p>

(a)

ダウンロードメッセージ
<p>クリスマスコンサート</p> <p>日時: 2000年12月25日</p> <p>上記チケットを <input checked="" type="checkbox"/> 払い戻し <input type="checkbox"/> 変更 <input type="checkbox"/> 後でダウンロード</p> <p>処理を選択し、実行キー を押してください。</p>

(b)

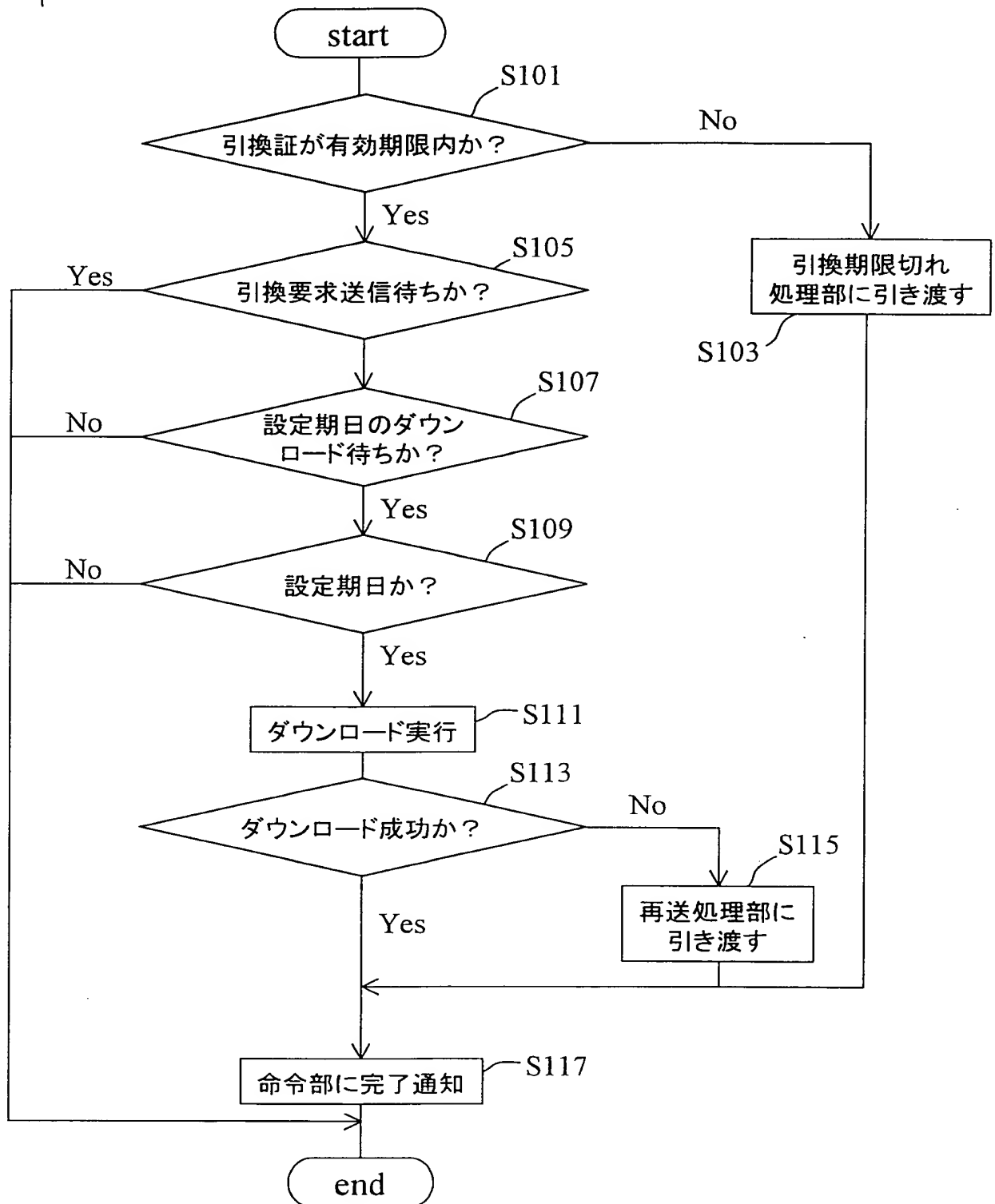
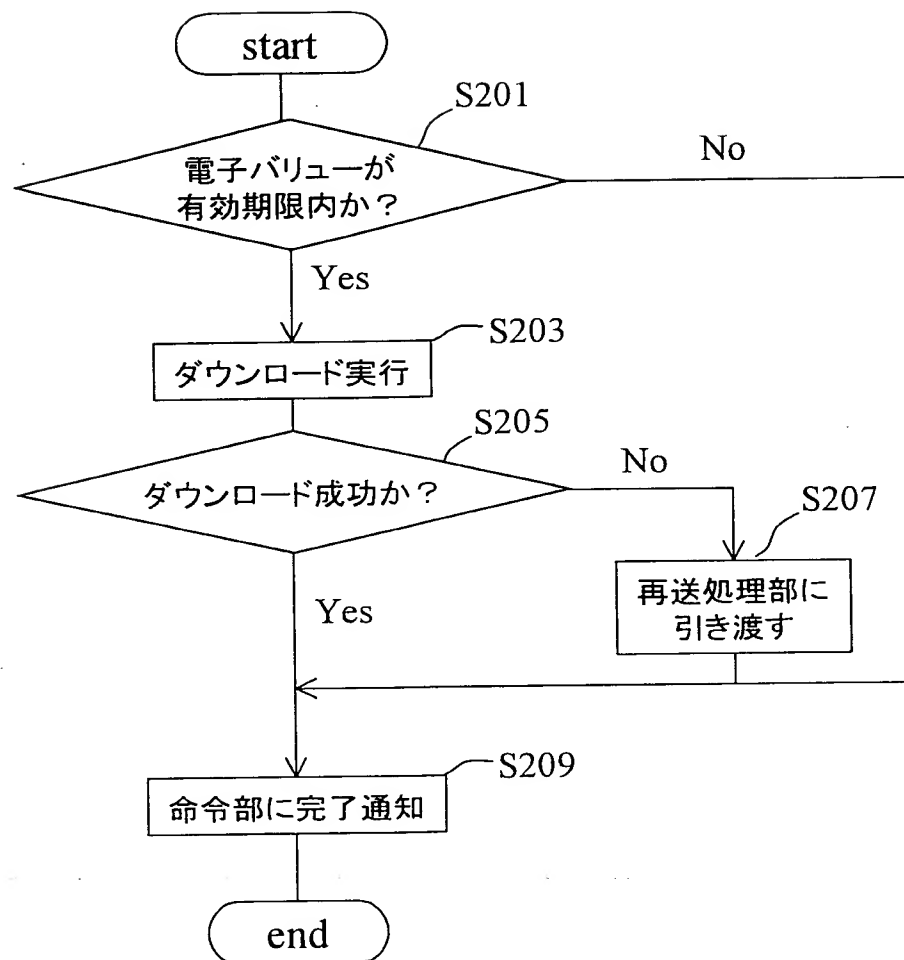


FIG. 7



【図8】

FIG. 8

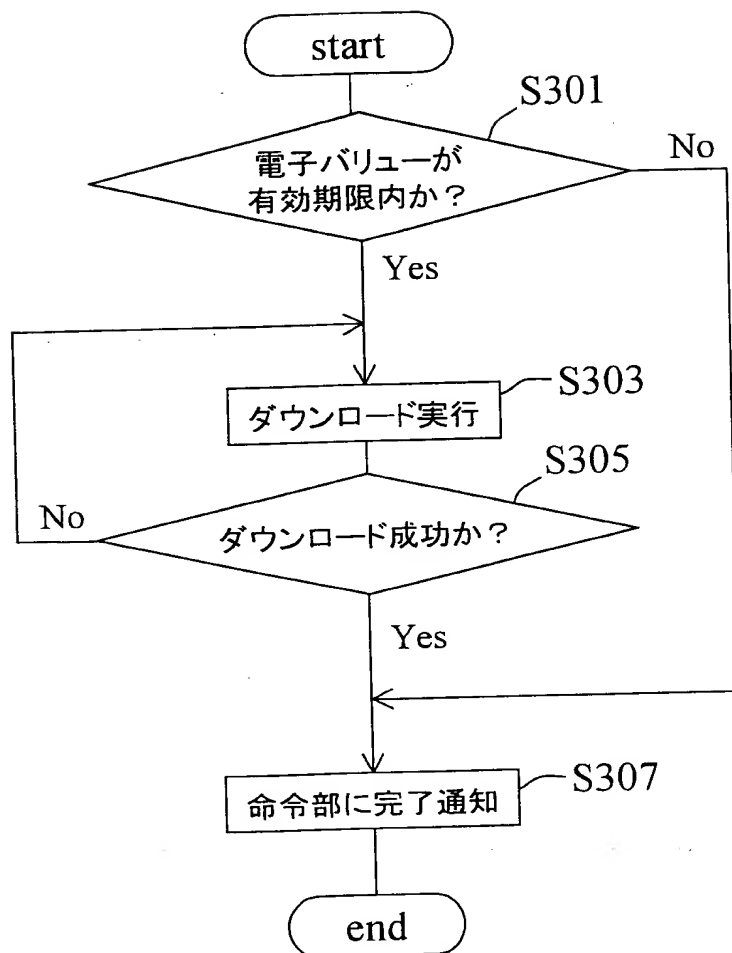


Fig. 9

【図9】

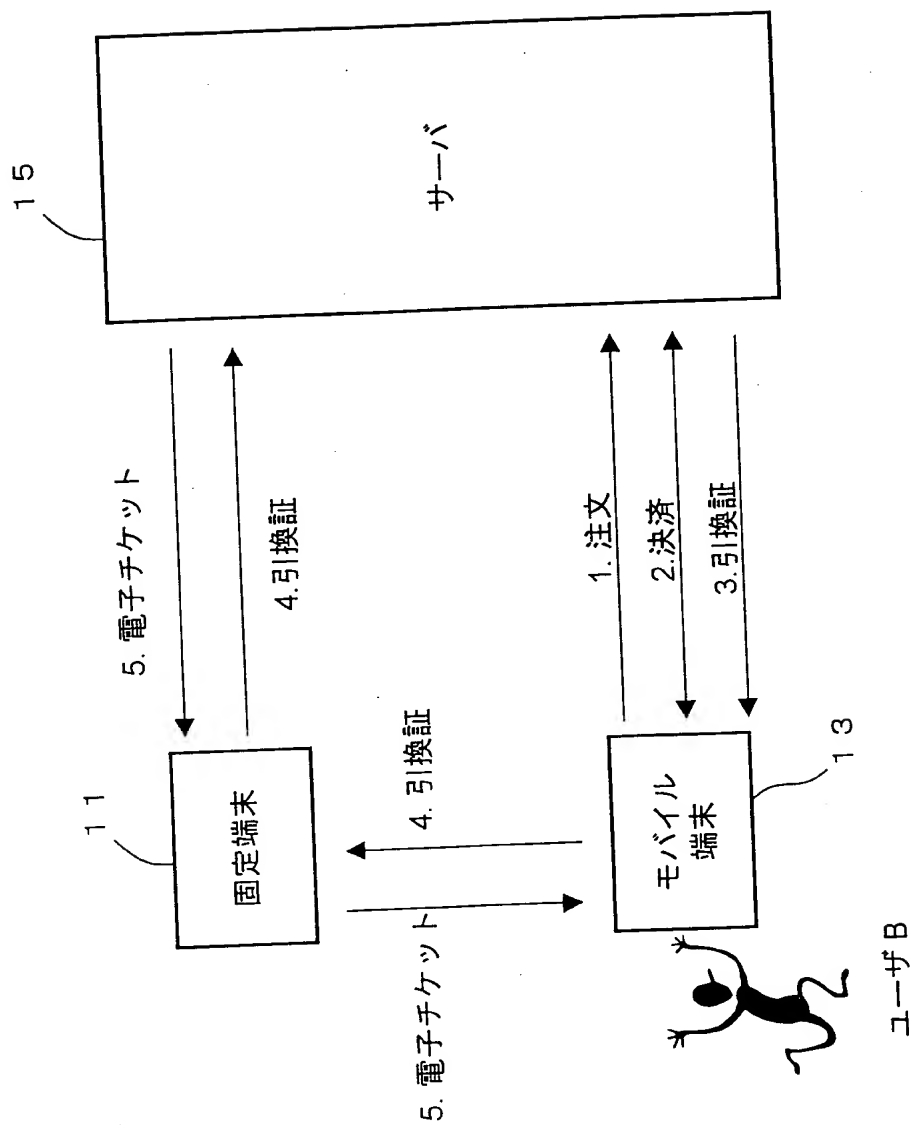


FIG. 10

【図10】

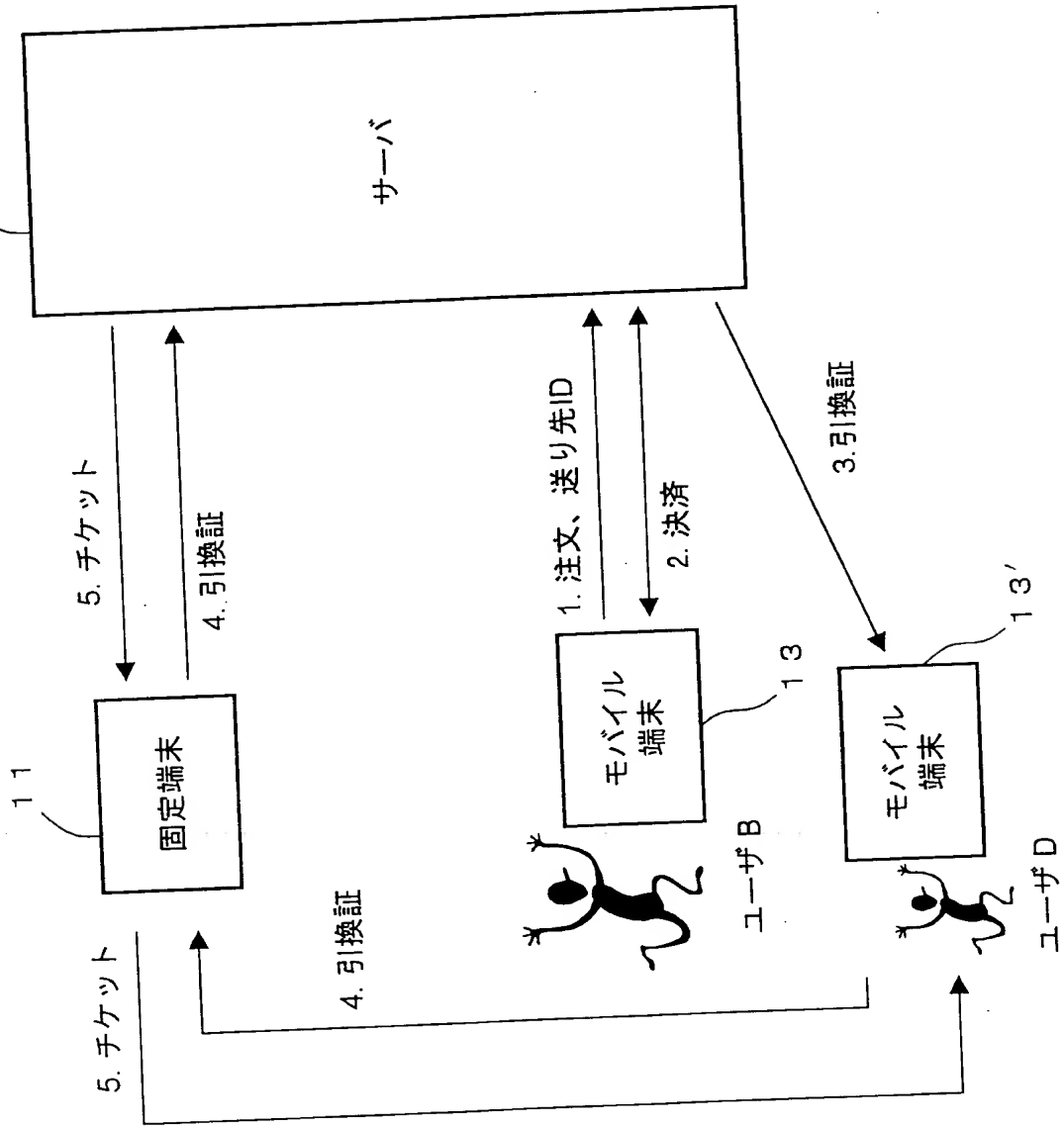


FIG. 11

【図11】

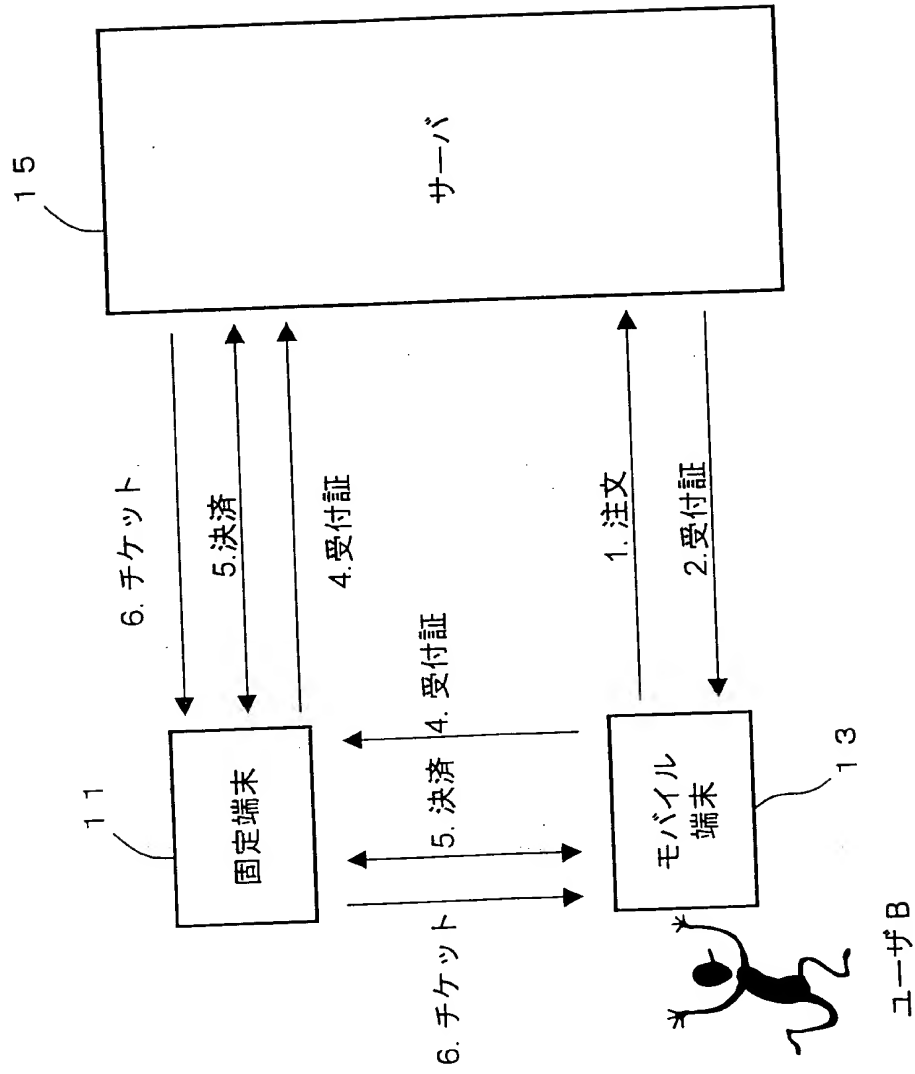


FIG. 12

【図12】

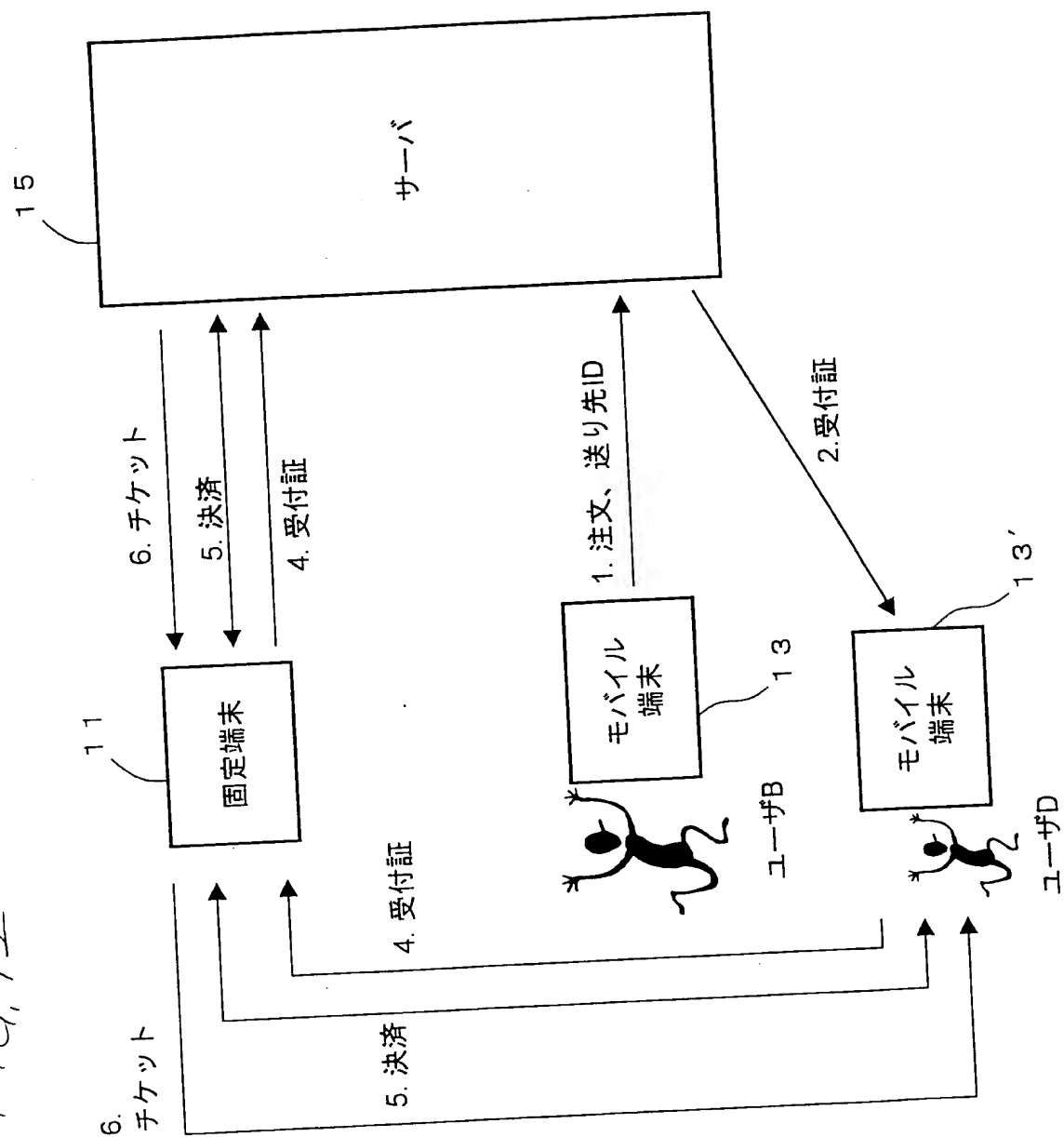


FIG. 13

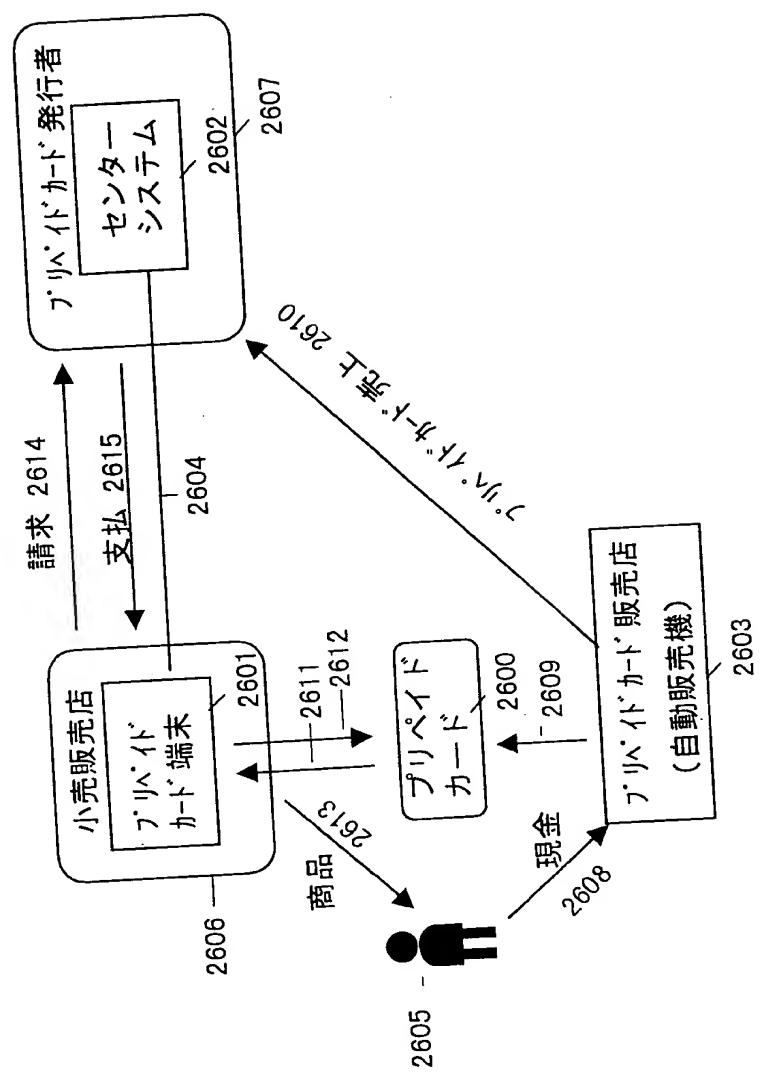
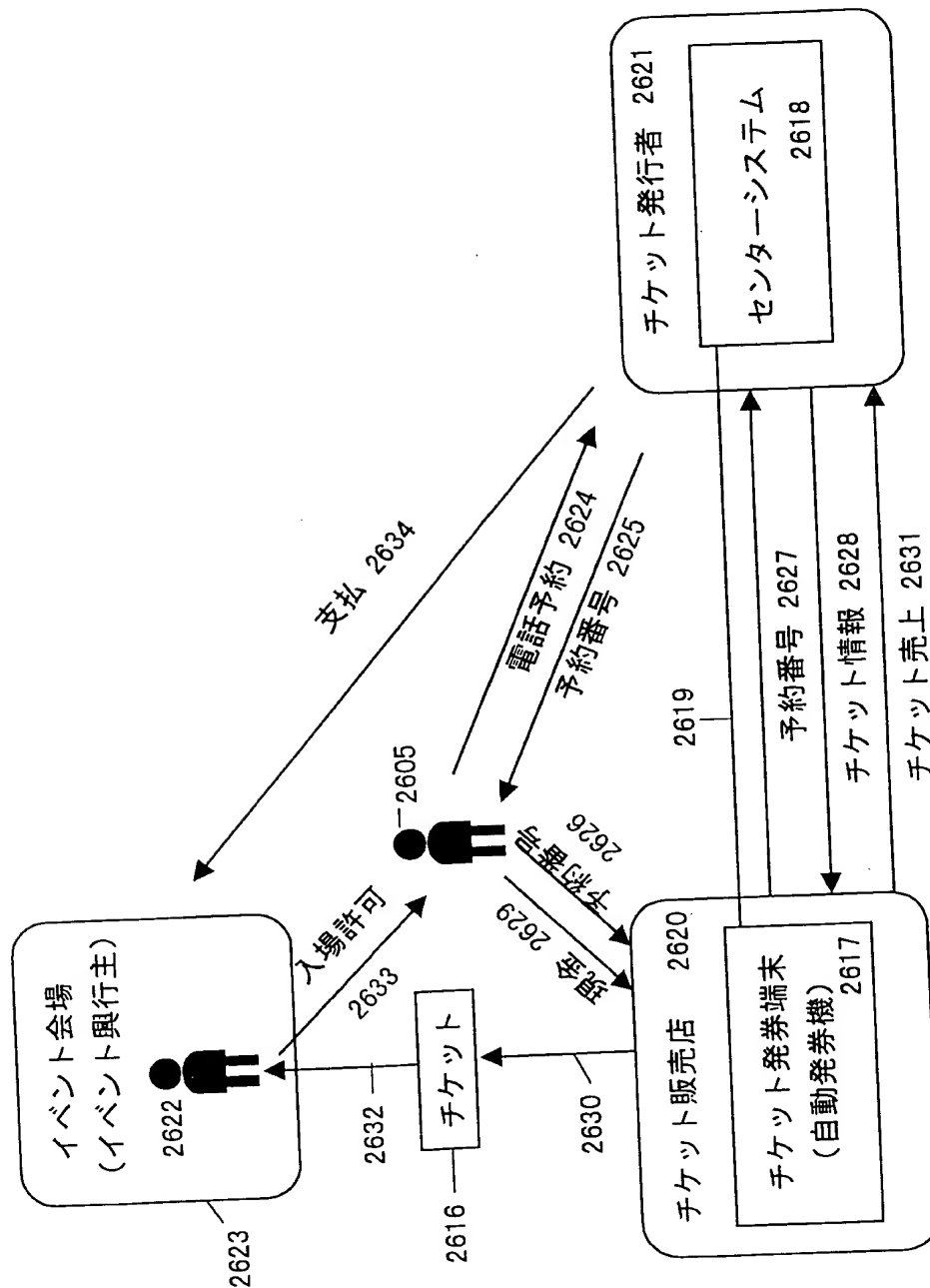


FIG. 14

【図14】



[DRAWINGS]

[FIG. 1]

11 STATIONARY TERMINAL
13 MOBILE TERMINAL
15 SERVER
17 COMMUNICATIONS NETWORK
101 ISSUANCE SECTION
101A ELECTRONIC ASSET ISSUANCE SECTION
101B EXCHANGE TICKET ISSUANCE SECTION
101C RECEIPT TICKET ISSUANCE SECTION
103 ELECTRONIC ASSET STATUS MANAGEMENT SECTION
105 PROCESSING SECTION
105A USER PROCESSING SECTION
105B EXCHANGE TICKET PROCESSING SECTION
105C PAST-DUE PROCESSING SECTION
105D RETRANSMISSION PROCESSING SECTION
109 SETTLEMENT PROCESSING SECTION
111 INSTRUCTION SECTION

[FIG. 2A]

BOOKING TICKET CODE
ELECTRONIC ASSET ID
ELECTRONIC ASSET INFORMATION
ELECTRONIC ASSET ISSUER ID
SERVICE PROVIDER ID
DETAILS OF RECEIPT TICKET
DATE AND TIME OF ISSUE OF RECEIPT TICKET
EXPIRATION DATE

ELECTRONIC SIGNATURE APPENDED BY ELECTRONIC ASSET PROVIDER
ELECTRONIC SIGNATURE APPENDED BY SERVICE PROVIDER

[FIG. 2B]

BOOKING TICKET CODE
PRODUCT ID
PRODUCT INFORMATION
PRODUCT'S MANUFACTURER ID
SERVICE PROVIDER ID
DETAILS OF RECEIPT TICKET
DATE AND TIME OF ISSUE OF RECEIPT TICKET
EXPIRATION DATE

ELECTRONIC SIGNATURE APPENDED BY PRODUCT'S MANUFACTURER
ELECTRONIC SIGNATURE APPENDED BY SERVICE PROVIDER

[FIG. 2C]

BOOKING TICKET CODE
SERVICE ID
SERVICE INFORMATION
SERVICE PLANNER ID
SERVICE PROVIDER ID
DETAILS OF RECEIPT TICKET
DATE AND TIME OF ISSUE OF RECEIPT TICKET
EXPIRATION DATE

ELECTRONIC SIGNATURE APPENDED BY SERVICE PLANNER

ELECTRONIC SIGNATURE APPENDED BY SERVICE PROVIDER

[FIG. 3]

300A ELECTRONIC ASSET ID
300B DATE AND TIME OF ISSUE OF ELECTRONIC ASSET
300C EXPIRATION DATE OF ELECTRONIC ASSET
300D PRESENCE/ABSENCE OF EXCHANGE TICKET
300E EXPIRATION DATE OF EXCHANGE TICKET
300F STATUS

COMPLETION OF A REFUND

AWAITING A USER'S REQUEST FOR EXCHANGE

AWAITING DOWNLOADING OF DATE PERTAINING TO A DESIGNATED EXPIRATION DATE

COMPLETION OF DOWNLOADING OF AN ELECTRONIC ASSET

COMPLETION OF DOWNLOADING OF AN ELECTRONIC ASSET

[FIG. 4]

MESSAGE

CHRISTMAS CONCERT

DATE: DECEMBER 25TH, 2000

THE EXPIRATION DATE BY WHICH THE EXCHANGE TICKET CAN BE EXCHANGED FOR AN ELECTRONIC TICKET IS NEAR AT HAND. PLEASE EXCHANGE THE EXCHANGE TICKET FOR THE ELECTRONIC TICKET IMMEDIATELY. A REFUND CANNOT BE GIVEN FOR AN EXPIRED TICKET.

[FIG. 5A]

DOWNLOAD MESSAGE

CHRISTMAS CONCERT

DATE: DECEMBER 25TH, 2000

SELECT EITHER OF THE FOLLOWING TWO OPERATIONS AND PRESS THE ENTER KEY.

DOWNLOAD THE TICKET

ANOTHER OPERATION

[FIG. 5B]

DOWNLOAD MESSAGE

CHRISTMAS CONCERT

DATE: DECEMBER 25TH, 2000

SELECT ONE ACTION FROM THE FOLLOWING OPERATIONS AND PRESS THE ENTER KEY.

REFUNDING

CHANGING TICKET TO ANOTHER TICKET

DOWNLOAD TICKET LATER

[FIG. 6]

S101 IS EXCHANGE TICKET VALID?

S103 HAND OVER PROCESSING TO PAST-DUE PROCESSING SECTION

S105 AWAITING TRANSMISSION OF REQUEST FOR EXCHANGE

S107 AWAITING DOWNLOADING OF DESIGNATED DATE AND TIME

S109 IS TODAY THE DESIGNATED DAY?

S111 DOWNLOAD ELECTRONIC ASSET

S115 HAND OVER PROCESSING TO RETRANSMISSION PROCESSING SECTION

S117 SEND COMPLETION ACKNOWLEDGMENT TO INSTRUCTION SECTION

[FIG. 7]

S201 IS ELECTRONIC ASSET VALID?

S203 DOWNLOAD ELECTRONIC ASSET

S205 HAS ELECTRONIC ASSET BEEN SUCCESSFULLY DOWNLOADED?

S207 HAND OVER PROCESSING TO RETRANSMISSION PROCESSING SECTION

S209 SEND COMPLETION ACKNOWLEDGMENT TO INSTRUCTION SECTION

[FIG. 8]

S301 IS ELECTRONIC ASSET VALID?

S303 DOWNLOAD ELECTRONIC ASSET

S305 HAS ELECTRONIC ASSET BEEN SUCCESSFULLY DOWNLOADED?

S307 SEND COMPLETION ACKNOWLEDGMENT TO INSTRUCTION SECTION

[FIG. 9]

1 ORDER

2 SETTLEMENT

3 EXCHANGE TICKET

4 EXCHANGE TICKET

5 ELECTRONIC TICKET

11 STATIONARY TERMINAL

13 MOBILE TERMINAL

15 SERVER

USER B

[FIG. 10]

1 ORDER, SENDER ID

2 SETTLEMENT

3 EXCHANGE TICKET

4 EXCHANGE TICKET

5 TICKET

11 STATIONARY TERMINAL

13 MOBILE TERMINAL

USER B

13' MOBILE TERMINAL

USER D

15 SERVER

[FIG. 11]

1 ORDER

2 SETTLEMENT

4 RECEIPT TICKET

5 SETTLEMENT

6 TICKET

11 STATIONARY SERVER

13 MOBILE TERMINAL

USER B

15 SERVER

[FIG. 12]

1 ORDER, SENDER ID

2 RECEIPT TICKET

4 RECEIPT TICKET

5 SETTLEMENT

6 TICKET

11 STATIONARY TERMINAL

13 MOBILE TERMINAL

USER B

13' MOBILE TERMINAL

USER D

15 SERVER

[FIG. 13]

2600 PREPAID CARD

2601 PREPAID CARD TERMINAL
2602 CENTRAL SYSTEM
2603 PREPAID CARD SALES SHOP
(AUTOMATIC VENDING MACHINE)
2606 RETAIL OUTLET
2607 PREPAID CARD ISSUER
2608 CASH
2610 PROCEEDS FROM SALE OF PREPAID CARD
2613 COMMODITY
2614 BILL
2615 PAYMENT

[FIG. 14]
2616 TICKET
2617 TICKETING TERMINAL (AUTOMATIC VENDING MACHINE)
2618 CENTRAL SYSTEM
2620 TICKET SHOP
2621 TICKET ISSUER
2623 EVENT HALL (EVENT PROMOTER)
2624 BOOKING BY PHONE
2625 BOOKING NUMBER
2626 BOOKING NUMBER
2627 BOOKING NUMBER
2628 TICKET INFORMATION
2629 CASH
2631 PROCEEDS FROM SALE OF TICKET
2633 PERMISSION TO ENTER
2634 PAYMENT